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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
|--|----------------|----------------------|---------------------|-----------------|
| 09/659,018 | 09/08/2000 | David Gabriel | 199-1538 | 3646 |
| 22844 7 | 590 05/02/2003 | • | | • |
| FORD GLOBAL TECHNOLOGIES, LLC. | | | EXAMINER | |
| SUITE 600 - PARKLANE TOWERS EAST ONE PARKLANE BLVD. | | | DEBERADINIS | S, ROBERT L |
| DEARBORN, | MI 48126 | | ART UNIT | PAPER NUMBER |
| | | | 2836 | |

DATE MAILED: 05/02/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. **09/659,018**

Applicant(s)

DAVID GABRIEL

Examiner

Robert L. DeBeradinis

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| | The MAILING DATE of this communication appears | on the cover sneet with the correspondence address | | |
|----------------------------|--|--|--|--|
| | for Reply | | | |
| | IORTENED STATUTORY PERIOD FOR REPLY IS SET | TO EXPIRE 3 MONTH(S) FROM | | |
| | MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.136 (a). In | no event, however, may a reply be timely filed after SIX (6) MONTHS from the | | |
| mailing | g date of this communication. period for reply specified above is less than thirty (30) days, a reply within th | | | |
| - If NO | period for reply is specified above, the maximum statutory period will apply a | and will expire SIX (6) MONTHS from the mailing date of this communication. | | |
| - Any re | e to reply within the set or extended period for reply will, by statute, cause the oply received by the Office later than thee months after the mailing date of the control | | | |
| earned Status | d patent term adjustment. See 37 CFR 1.704(b). | | | |
| 1) 💢 | Responsive to communication(s) filed on Sep 18, 2 | 2002 | | |
| 2a) 💢 | This action is FINAL . 2b) \square This act | | | |
| 3) 🗆 | | except for formal matters, prosecution as to the merits is | | |
| U , | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. | | | |
| Disposi | ition of Claims | | | |
| 4) 💢 | Claim(s) 21-31 | is/are pending in the application. | | |
| 4a) Of the above, claim(s) | | is/are withdrawn from consideration. | | |
| 5) 🗆 | Claim(s) | is/are allowed. | | |
| 6) 💢 | Claim(s) <u>21-31</u> | is/are rejected. | | |
| 7) 🗆 | Claim(s) | | | |
| 8) 🗆 | Claims | are subject to restriction and/or election requirement. | | |
| Applica | ation Papers | | | |
| 9) 🗆 | The specification is objected to by the Examiner. | | | |
| 10) | The drawing(s) filed on is/are | $oldsymbol{a}$ accepted or $oldsymbol{b}$) objected to by the Examiner. | | |
| | Applicant may not request that any objection to the d | | | |
| 11) | | is: a) □ approved b) □ disapproved by the Examiner. | | |
| | If approved, corrected drawings are required in reply t | to this Office action. | | |
| 12) | The oath or declaration is objected to by the Exami | iner. | | |
| Priority | under 35 U.S.C. §§ 119 and 120 | | | |
| 13) | Acknowledgement is made of a claim for foreign pr | riority under 35 U.S.C. § 119(a)-(d) or (f). | | |
| a) [| ☐ All b)☐ Some* c)☐ None of: | | | |
| | 1. \square Certified copies of the priority documents have | e been received. | | |
| | 2. Certified copies of the priority documents have been received in Application No | | | |
| | 3. Copies of the certified copies of the priority do application from the International Burea | ocuments have been received in this National Stage au (PCT Rule 17.2(a)). | | |
| *S | ee the attached detailed Office action for a list of the | | | |
| 14) | Acknowledgement is made of a claim for domestic | priority under 35 U.S.C. § 119(e). | | |
| a) | \supset The translation of the foreign language provisiona | • • | | |
| 15) 🗆 | Acknowledgement is made of a claim for domestic | priority under 35 U.S.C. §§ 120 and/or 121. | | |
| Attachm | | | | |
| | otice of References Cited (PTO-892) | 4) Interview Summary (PTO-413) Paper No(s). | | |
| | otice of Draftsperson's Patent Drawing Review (PTO-948) | 5) Notice of Informal Patent Application (PTO-152) | | |
| 3) Inf | formation Disclosure Statement(s) (PTO-1449) Paper No(s). | 6) Other: | | |

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DETAILED ACTION

The response filed 9/18/02 consists of cancellation of all previous claims, addition of new claims 21-31 and remarks related to rejection of claims. The claims are not allowed as explained below.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 21-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over REUYL 4,182,960 in view of GREEN 5,642,270.

Regarding claims 21-31.

REUYL discloses a motor vehicle electrical power system for powering an electrical load external to the vehicle comprising:

an internal combustion engine (26');

a battery (52);

an electric generator (26") coupled to said internal combustion engine for generating electrical power when said internal combustion engine is running;

an electric motor (propulsion system 56, see column 4, line 42) coupled to said battery.

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REUYL does not disclose a motor vehicle electrical power system for powering an electrical load external to the vehicle comprising:

an electric generator coupled to said internal combustion engine for generating AC electric power when said internal combustion engine is running;

a generator inverter disposed between said electric generator and said battery for converting the AC electric power generated by said generator to DC electric power for storage in said battery;

an electric traction motor coupled to said battery;

a traction inverter coupled to said battery for converting the stored DC electric power to an AC power input for said electric traction motor;

a switching device disposed between said traction inverter and said electric traction motor for selectively diverting the AC electric power input from said electric traction motor for application to the external electrical load.

GREEN discloses (column 5, lines 30 plus):

an electric traction motor (5) coupled to said battery (1);

a traction inverter (2) coupled to said battery for converting the stored DC electric power to an AC power input for said electric traction motor (5);

a switching device (4) disposed between said traction inverter and said electric traction motor (5) for selectively diverting the AC electric power input from said electric traction motor for application to the external electrical load (utility grid).

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It would have been obvious to one having ordinary skill in the art at the time of this invention to provide:

an electric generator coupled to said internal combustion engine for generating AC electric power when said internal combustion engine is running;

a generator inverter disposed between said electric generator and said battery for converting the AC electric power generated by said generator to DC electric power for storage in said battery;

to provide AC power directly to the residential load to save the life of the automotive storage batteries and provide the generator inverter to charge the vehicle batteries from the AC generator when the vehicle is in a normal charging mode of operation.

Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR

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1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication should be directed to Robert L. DeBeradinis whose number is (703) 306-5857. The examiner can normally be reached on Monday-Friday from 8:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus, can be reached on (703) 308-3119. The fax phone number for this Group is (703) 308-7722.

RLD

OCTOBER 11, 2002

BRIAN SIRCUS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800